FEI | Faith Engineering, Inc.

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August 15, 2001

Mr. Nolan Bennett
Environmental Health Scientist
Bernalillo County Environmental Health Department
600 Second St. NW, Suite 500
Albuquerque, NM 87102

Sent via E-mail: nbennett@bernco.gov and US Mail

RE: Transmittal of 3rd Quarterly Ground Water Sampling Results
2615 Isleta SW, The Rodgers Drilling Site; NMED/USTB Facility ID No. 11017001 / 30287
Contract Control No. 980473
FEI Project No. 99-01-1186-05

Dear Nolan:

Please find included herewith the report for the third quarter of ground water sampling and analysis for the subject site. Ground water sampling was conducted on July 2, 2001.

This sampling event provides the sample results with field testing for an abbreviated round of 13 of the 29 ground water monitoring wells on site. During this quarter's sampling event, benzene concentrations above the NMWQCC standard of 10 µg/l were found in 3 monitoring wells; W-11, VM-4 and VM-5. Toluene concentrations above the standard of 750 µg/l were found in 4 monitoring wells; VM-4, VM-5, VM-7 and FTW-3. Ethylbenzene concentrations above the standard of 750 µg/l were found in 6 monitoring wells; W-11, VM-1, VM-4, VM-5, VM-7, and FTW-2. Total xylenes concentrations above the standard of 620 µg/l were found in 9 monitoring wells; W-11, VM-1, VM-2, VM-4, VM-5, VM-7, FTW-1, FTW-2 and FTW-3. Total naphthalene concentrations (including naphthalene, 1-methylnaphthalene and 2-methylnaphthalene) above the standard of 30 µg/l were found in 10 monitoring wells; W-2, W-11, VM-1, VM-2, VM-4, VM-5, VM-7, FTW-1, FTW-2 and FTW-3.

Faith Engineering, Inc. has submitted a work plan to conduct a Tier 2 evaluation at this site. Please do not hesitate to contact the undersigned if you have any questions or comments regarding this Sampling Report.

Respectfully submitted,

FAITH ENGINEERING, INC.

Stuart E. Faith, PE – President

cc. w/ encls. Mr. Tom Leck – NMED/USTB
Mr. Bill Brown - TPA

FEI FILE NUMBER 99-01-1186-05

THIRD QUARTERLY SAMPLING REPORT
THE RODGER'S DRILLING SITE
2615 ISLETA BLVD. SW
ALBUQUERQUE, NEW MEXICO
FACILITY #11017001/30287

PREPARED BY:

STUART FAITH, P.E. AND KENT FRY
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AUGUST 15, 2001

PREPARED FOR:

THE BERNALILLO COUNTY ENVIRONMENTAL HEALTH DEPARTMENT
AND
THE NEW MEXICO ENVIRONMENT DEPARTMENT
UNDERGROUND STORAGE TANK BUREAU

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FORM 1223
QUARTERLY MONITORING REPORT

Please include the following information:

1. **Site name:** Rodger's Drilling
2. **Responsible party:** Mr. Nolan Bennett
3. **Responsible party mailing address** (list contact person if different):

   Bernalillo County Environmental Health Dept.

   600 2nd Street NW, Suite 500

   Albuquerque, NM 87102
4. **Facility number:** 11017001/30287
5. **Address/legal description:** 2615 Isleta Blvd. SW

   Albuquerque, NM
6. **Author/consulting company:** Faith Engineering, Inc.
7. **Date of report:** 08/15/2001
8. **Date of confirmation of release or date USTB was notified of the release:**

   1988

STATEMENT OF FAMILIARITY

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature:_____

Name: Stuart Faith

Affiliation: Faith Engineering, Inc.

Title: President

Certified Scientist #: 080

Date:_____

I. INTRODUCTION:

I. A. Scope of Work

Faith Engineering, Inc. (FEI), in collaboration with Tecumseh Professional Associates, Inc. (TPA), has been retained by the Bernalillo County Environmental Health Department to provide professional environmental services at the Rodger's Drilling site, 2615 Isleta SW, Albuquerque, New Mexico (the Site). The location of the Site is shown on Figure 1. This report documents the third quarter of ground water sampling conducted at the site on July 2, 2001. The period covered in this report is from May 2001 to July 2001.

I. B. This quarter's highlights

This sampling event represents the third quarter of ground water quality re-examination as outlined in the work plan approval letter dated November 11, 1999, as amended on March 17, 2000 and again on November 17, 2000. The sampling event provides the sample results with field testing for an abbreviated round of 13 of the 29 ground water monitoring wells on site.

II. ACTIVITIES PERFORMED DURING THIS QUARTER:

II. A. Brief description of the remediation system and date installed

Initial investigation activities were conducted at the site by Metric in 1989 and 1990 under contract with Rodgers Drilling Inc. Nineteen drive points and 2 hollow stem auger monitor wells were installed in the site vicinity identifying a large dissolved-phase Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) groundwater plume. In 1991, Metric installed a passive air-inlet soil remediation system at the Site. Five trenches approximately 50 feet in length were excavated to the water table allowing for four-inch diameter PVC slotted screens to be placed horizontally and manifolded to above ground wind turbines. The trenches were back filled with gravel and capped with asphalt. Additionally, 150 cubic yards of soils was reportedly removed from the former UST location.

The Rodgers Site was added to the NMED list of GWPA State Lead remediation projects in 1992. NMED retained Billings and Associates, Inc. (BAI) to evaluate site conditions and implement an enhanced remedial strategy. BAI installed an in-situ SVVS^{TM} remediation system consisting of 2 primary lines of sparge and vent wells. A line of 20 sparge/vent wells are indicated from the BAI site plan as being located along the south side of the Rodgers building. The exact location is unclear and may be located on either side of the Auto Zone/Rodgers property boundary and can only be estimated as all components of this line are buried. An additional 7 sparge/vent wells are located along the north side of the Rodgers property and can be located from evidence in the field. The AS/VE system was operated for approximately 3 years prior to shutdown.

It appears that two source areas are present in the site vicinity; one located in the vicinity of the former USTs on the Rodgers property, and one located north of the site in the vicinity of the former Sparkle Car Wash USTs (see Figure 1). In 1990, approximately 250 yards of hydrocarbon contaminated soil was excavated from the Sparkle UST pit and allowed to aerate on-site. An active horizontal groundwater sparging/passive vadose zone venting system was installed in the excavation pit. This system was operated for approximately 3 months before being turned off.

II. B. Description of activities performed to keep system operating properly

None. System was shut down in 1997.

II. C. Monitoring activities performed

Ground water monitoring and sampling at the Site during this quarter took place on July 2, 2001. This quarter's sampling included the following:

- ground water elevation measurements in all wells.
- quarterly event ground water sampling of monitor wells W-2, W-3, W-11, W-14, W-23, VM-1, VM-2, VM-4, VM-5, VM-7, FTW-1, FTW-2, and FTW-3.
- laboratory analysis of ground water samples for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), Methyl-t-Butyl Ether (MTBE), TMB, Ethylene Dibromide (EDB), Ethylene Dichloride (EDC), Naphthalene, 1-Methynaphthalene and 2-Methylnaphthalene by EPA Method 8260 PBMS (expanded naphthalenes) and for polynuclear aromatics (PNAs) by EPA Method 8270 SIMS in wells VM-4 and VM-5
- field testing for natural attenuation indicators of ground water samples, including iron, phosphate, sulfide, nitrate, alkalinity, pH, dissolved oxygen, conductivity, and temperature.

The locations of all monitor wells are shown on Figure 1. Monitoring and sampling procedures are described in Appendix 1. Table 4 provides a historical summary of field activities at the site and Appendix 2 contains this quarter's Field Activity Logs. The laboratory results of the ground water analyses for the current monitoring period are shown on Table 1. Historic ground water sampling results are shown on Tables 2a and 2b. Laboratory reports and the Chain of Custody Form are provided in Appendix 3.

During this quarter's sampling event, benzene concentrations above the NMWQCC standard of 10 µg/l were found in 3 monitoring wells; W-11 (5700 µg/l), VM-4 (6600 µg/l) and VM-5 (4800 µg/l). Toluene concentrations above the standard of 750 µg/l were found in 4 monitoring wells; VM-4 (2800 µg/l), VM-5 (9500 µg/l), VM-7 (6900 µg/l) and FTW-3 (880 µg/l). Ethylbenzene concentrations above the standard of 750 µg/l were found in 6 monitoring wells; W-11 (2000 µg/l), VM-1 (1400 µg/l), VM-4 (2600 µg/l), VM-5 (1300 µg/l), VM-7 (1600 µg/l), and FTW-2 (810 µg/l). Total xylenes concentrations above the standard of

620 µg/l were found in 9 monitoring wells; W-11 (1700 µg/l), VM-1 (1800 µg/l), VM-2 (760 µg/l), VM-4 (5300 µg/l), VM-5 (5400 µg/l), VM-7 (5900 µg/l), FTW-1 (1640 µg/l), FTW-2 (2020 µg/l) and FTW-3 (1680 µg/l). Total naphthalene concentrations (including naphthalene, 1-methylnaphthalene and 2-methylnaphthalene) above the standard of 30 µg/l were found in 10 monitoring wells; W-2, W-11, VM-1, VM-2, VM-4, VM-5, VM-7, FTW-1, FTW-2 and FTW-3. These concentrations ranged from 77 µg/l in FTW-1 to 662 µg/l in VM-1. A total BTEX summary and contour map for the third quarter ground water analysis are shown on Figure 1. In an effort to more realistically characterize the analytical data generated from the quarterly sampling, FEI has adopted a reporting standard of multi-component compounds like total Xylenes (see Appendix 1).

Depth to ground water during this quarter's sampling event varied from 6.62 feet below ground surface (bgs) in wells W-6 to 8.89 feet bgs in well W-14. All ground water elevation data including the historical data is summarized in Table 3. This quarter's measurements of on-site ground water elevations indicate a defined directional flow in a west-southwesterly orientation. A water elevation summary and directional flow map for the third quarter ground water measurements are shown on Figure 2.

II. D. System performance and effectiveness

Not Applicable, See II. A. and B.

II. E. Statement verifying containment of release

Based on ground water sample results from site perimeter monitoring wells and the recently completed Hydrogeologic Investigation, containment of off-site ground water contaminants cannot be assured at the Rodger's Drilling Site under present conditions. High levels of dissolved phase hydrocarbons are present in the ground water which extend off-site to the north in the Sparkle Car Wash property and south onto the Auto Zone property. Please refer to Figure 1. Long-term monitoring by the responsible party indicates that the Sparkle Car Wash plume is relatively restricted in size, is partially remediated, and has not co-mingled with the Rodgers Site plume. There is no evidence to suggest additional off-site, up-gradient sources of contaminant for the BTEX concentration levels.

III. SUMMARY AND CONCLUSIONS:

III. A. Discussion of trends or changes noted in analytical results or site conditions

Laboratory results obtained during this third quarter sampling event and the Hydrogeologic Investigation indicate that BTEX concentrations in the ground water has migrated from the site's former UST location off-site, north to the Sparkle Car Wash property and south to the Auto Zone property. BTEX concentrations are above the NMWQCC standards in monitoring wells adjacent to these properties. Naphthalene concentrations are also above the NMWQCC standard of 30 µg/l in monitoring wells W-2, W-

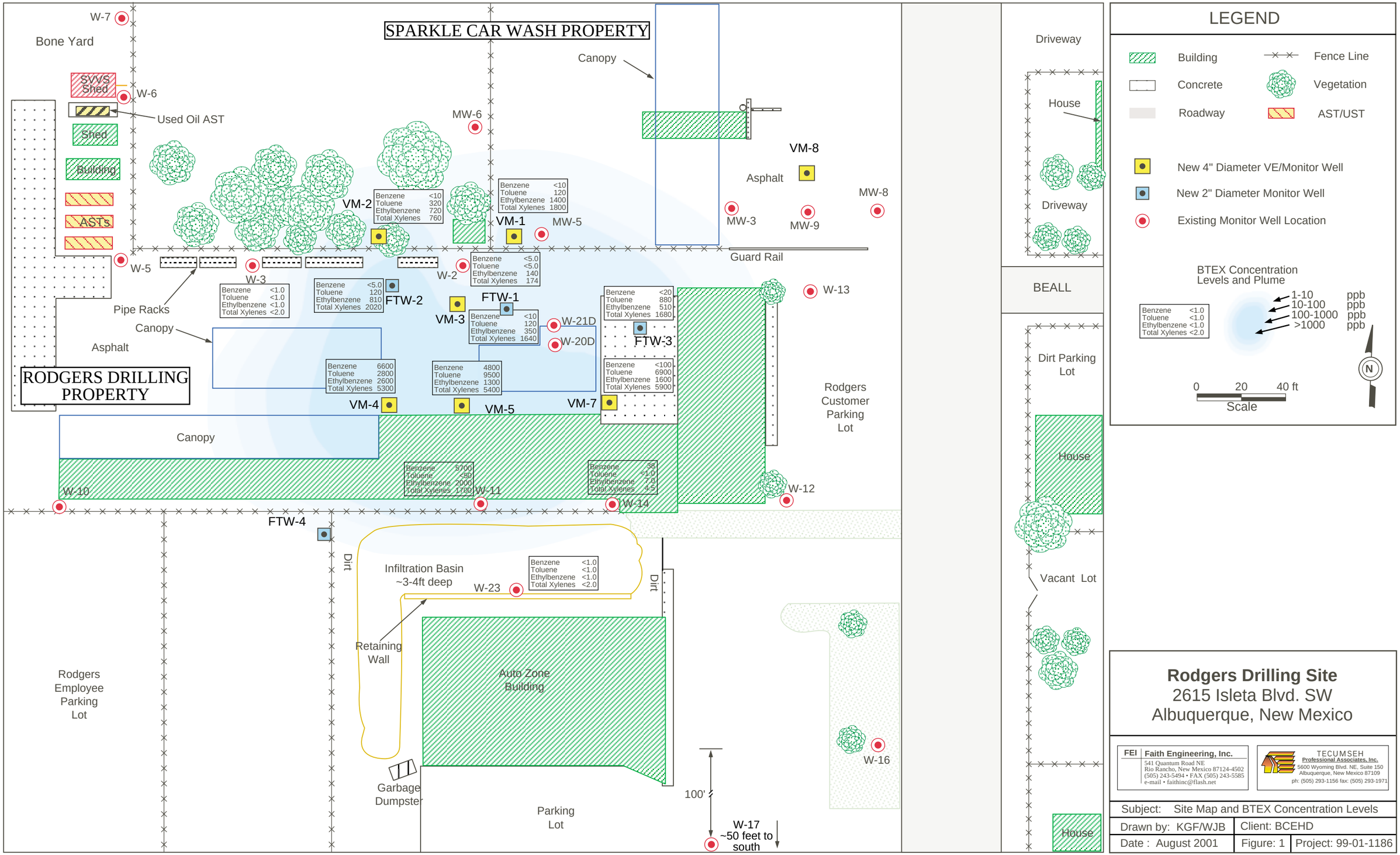
11, VM-1 and VM-2 at the site's north and south property boundary. The laboratory results of the ground water shown on Table 1 also indicate that the contaminant plume may be characterized as an older and weathered petroleum release.

III. B. Ongoing assessment of the remediation system

Not Applicable, See II. A. and B.

III. C. Recommendations

FEI recommends continuing site monitoring and sampling pursuant to the work plan approval letter dated November 11, 1999, as amended to change the report submission dates. FEI also recommends conducting a Tier Two RBCA evaluation to determine future actions. A new work plan for the Tier 2 evaluation was recently submitted. The next quarterly sampling report will be submitted on or about October 15, 2001.



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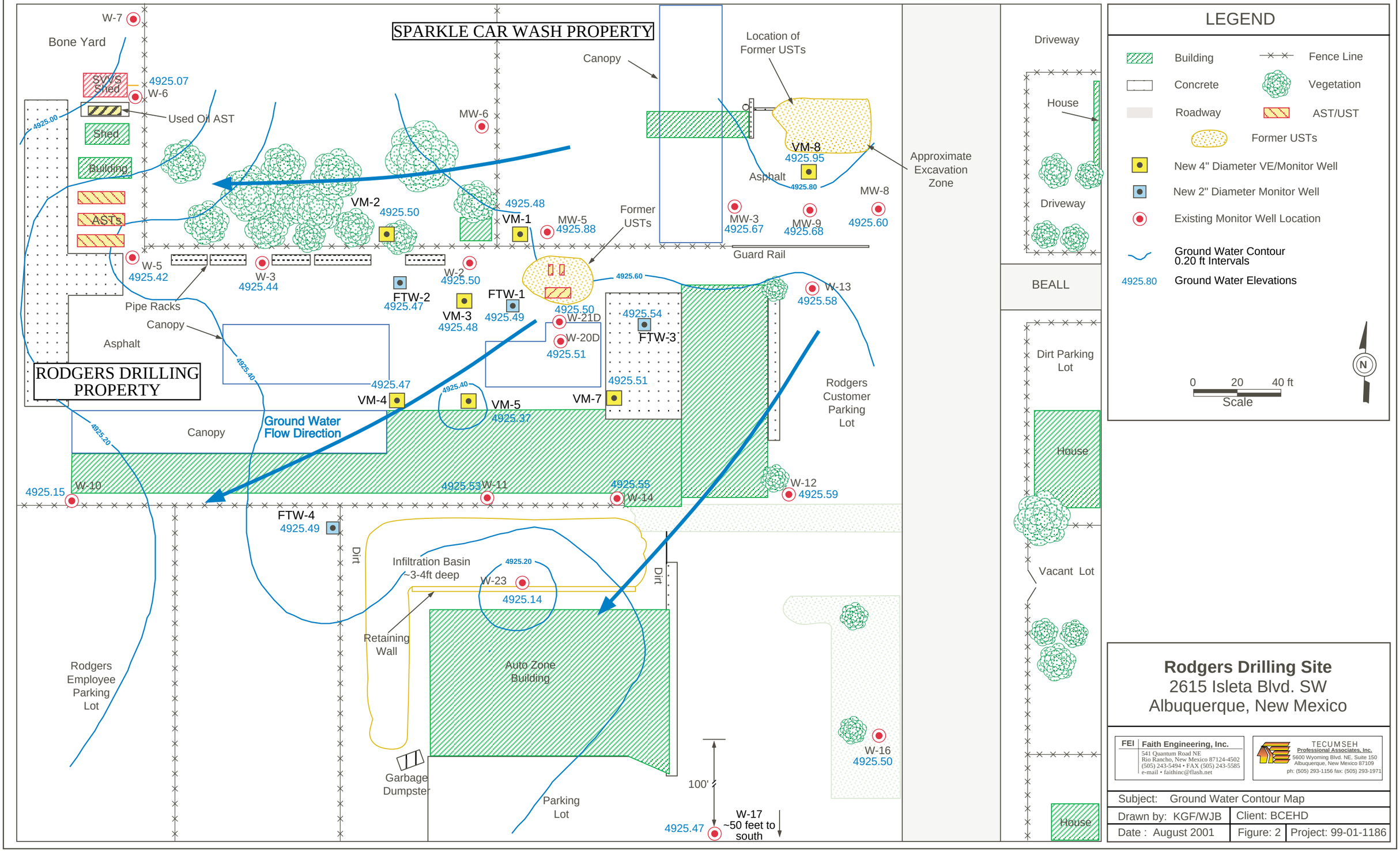
Subject: Site Map and BTEX Concentration Levels		
Drawn by: KGF/WJB	Client: BCEHD	
Date : August 2001	Figure: 1	Project: 99-01-1186



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Subject: Ground Water Contour Map		
Drawn by: KGF/WJB	Client: BCEHD	
Date : August 2001	Figure: 2	Project: 99-01-1186

TABLE 1
Rodger's • 2615 Isleta
99-01-1186-05 • NMED FACILITY #30287
CURRENT GROUND WATER ANALYSIS RESULTS

		ORGANICS											INORGANICS						INDICATORS		
LOCATION	**DATE SAMPLED**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**	**EDB**	**EDC**	**TMB**	**NAPHTHALENE**	**1-METHYL NAPHTHALENE**	**2-METHYL NAPHTHALENE**	**IRON**	**PHOSPHATE**	**SULFIDE**	**ALKALINITY as CaCO.**	**DISS O2**	**NITRATE**	**pH**	**CONDUCTIVITY**	**TEMP**
UNITS		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		µmhos/cm	˚C
STANDARDS		**10**	**750**	**750**	**620**	**100**	**0.1**	**10**		**30**			**1.0**					**10.0**			
W-2	07/02/01	< 5.0	< 5.0	140	174	5.8	< 5.0	< 5.0	1460	**76**	**140**	**100**	**40**	4.0	0.0	600	10.0	0.2	7.38	1751	23.3
W-3	07/02/01	< 1.0	< 1.0	< 1.0	< 2.0	31	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	**3.0**	4.0	0.0	250	2.0	0.6	6.98	2528	21.7
W-11	07/02/01	**5700**	< 50	**2000**	**1700**	< 50	< 50	< 50	390 †	**430**	**< 250**	**< 250**	**1.5**	5.0	0.0	500	5.0	0.6	7.03	1955	21.3
W-14	07/02/01	3.8	< 1.0	7.0	4.5 †	< 1.0	< 1.0	< 1.0	4.0	1.1	< 5.0	< 5.0	**2.0**	2.0	0.0	500	4.0	1.0	6.98	2523	21.6
W-23	07/02/01	< 1.0	< 1.0	< 1.0	< 2.0	2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0	**2.0**	2.0	0.0	500	1.0	0.8	6.93	2330	23.6
VM-1	07/02/01	< 10	120	**1400**	**1800**	< 10	< 10	< 10	1591	**390**	**180**	**92**	0.8	0.6	0.0	400	2.0	1.0	7.23	2098	23.7
VM-2	07/02/01	< 10	320	720	**760**	11	< 10	< 10	958	**150**	**140**	**91**	0.3	7.0	1.0	600	0.5	1.5	7.38	2269	22.1
VM-4	07/02/01	**6600**	**2800**	**2600**	**5300**	< 50	< 50	< 50	1680	**450**	**59***	**82***	**14**	5.0	0.0	500	1.0	0.0	6.82	2076	23.4
VM-5	07/02/01	**4800**	**9500**	**1300**	**5400**	< 50	< 50	< 50	1360	**230**	**25***	**42***	**2.0**	0.2	0.0	500	3.0	1.0	7.11	2048	23.7
VM-7	07/02/01	< 100	**6900**	**1600**	**5900**	< 100	< 100	< 100	1350	**340**	**< 500**	**< 500**	**1.5**	4.0	0.2	500	3.0	1.5	7.00	2330	24.1
FTW-1	07/02/01	< 10	120	350	**1640**	< 10	< 10	< 10	337	**77**	**< 50**	**< 50**	**1.0**	2.0	0.0	350	1.0	1.0	6.96	2345	22.9
FTW-2	07/02/01	< 5.0	120	**810**	**2020**	10	< 5.0	< 5.0	890	**170**	**51**	**50**	0.4	0.6	0.0	500	4.0	1.5	7.02	1939	22.2
FTW-3	07/02/01	< 20	**880**	510	**1680**	< 20	< 20	< 20	800	**120**	**< 100**	**< 100**	0.3	0.3	0.8	300	1.0	1.0	7.05	2594	23.6
TRIP BLANK	06/29/01	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0									

† - See Appendix 1

* - Results Using EPA Method 8270 SIMS

Data checked _____ / _____

Faith Engineering, Inc
8/15/01

TABLE 2a
Rodger's 2615 Isleta
99-01-1186-05 • NMED FACILITY #30287
HISTORICAL GROUND WATER ANALYSIS RESULTS/ORGANICS

		ORGANICS										
LOCATION	**DATE SAMPLED**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**	**EDB**	**EDC**	**TMB**	**NAPHTHALENE**	**1-METHYL NAPHTHALENE**	**2-METHYL NAPHTHALENE**
UNITS		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l
STANDARDS		**10**	**750**	**750**	**620**	**100**	**0.1**	**10**		**30**		
MW - 3	9/25/00	< 1.0	< 1.0	< 1.0	< 2.0	7.2	< 1.0	< 1.0	< 2.0	< 1.0	*	*
MW - 5	9/25/00	< 1.0	< 1.0	1.0	< 2.0	20	< 1.0	< 1.0	<4.4	< 1.0	*	*
MW - 8	9/26/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 2	9/25/00	< 5.0	< 5.0	240	423	30	< 5.0	< 5.0	1640	**130**	*	*
	05/21/01	< 1.0	1.1	110	107	< 1.0	< 1.0	< 1.0	897	**52**	**110**	**51**
	07/02/01	< 5.0	< 5.0	140	174	5.8	< 5.0	< 5.0	1460	**76**	**140**	**100**
W - 3	9/25/00	< 1.0	< 1.0	2.5	4.5	29	< 1.0	< 1.0	< 2.0	< 1.0	*	*
	05/18/01	< 1.0	< 1.0	< 1.0	<2.0	26	< 1.0	< 1.0	<2.0	<1.0	<5.0	<5.0
	07/02/01	< 1.0	< 1.0	< 1.0	< 2.0	31	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0
W - 5	9/25/00	< 1.0	< 1.0	< 1.0	< 2.0	4.3	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 6	9/25/00	< 1.0	< 1.0	< 1.0	< 2.0	10	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 10	9/25/00	< 1.0	< 1.0	< 1.0	< 2.0	1.7	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 11	9/25/00	**2300**	< 20	**1400**	**<1020**	< 20	< 20	**< 20**	< 340	**390**	*	*
	05/21/01	**6100**	47	**760**	360	< 25	< 25	< 25	64	**110**	**<130**	**<130**
	07/02/01	**5700**	< 50	**2000**	**1700**	< 50	< 50	< 50	390 †	**430**	**< 250**	**< 250**
W - 12	9/26/00	< 1.0	< 1.0	1.0	< 2.0	< 1.0	< 1.0	< 1.0	19.4	1.8	*	*
W - 13	9/25/00	< 1.0	< 1.0	< 1.0	< 2.0	1.3	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 14	9/25/00	3.2	< 1.0	41	4.9	1.7	< 1.0	< 1.0	<5.4	2.9	*	*
	05/21/01	**38**	1.6	21	16.8	< 1.0	< 1.0	< 1.0	34.4	4.3	<5.0	<5.0
	07/02/01	3.8	< 1.0	7.0	4.5 †	< 1.0	< 1.0	< 1.0	4.0	1.1	< 5.0	< 5.0

TABLE 2a
Rodger's 2615 Isleta
99-01-1186-05 • NMED FACILITY #30287
HISTORICAL GROUND WATER ANALYSIS RESULTS/ORGANICS

		ORGANICS										
LOCATION	**DATE SAMPLED**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**	**EDB**	**EDC**	**TMB**	**NAPHTHALENE**	**1-METHYL NAPHTHALENE**	**2-METHYL NAPHTHALENE**
UNITS		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l
STANDARDS		**10**	**750**	**750**	**620**	**100**	**0.1**	**10**		**30**		
W - 16	9/26/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 17	9/26/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 20D	9/26/00	< 1.0	< 1.0	< 1.0	< 2.0	5.4	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 21D	9/26/00	< 1.0	< 1.0	< 1.0	< 2.0	6.1	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 23	9/26/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*
	1/16/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
	05/21/01	**53**	< 1.0	2.3	<2.0	< 1.0	< 1.0	< 1.0	<2.0	1.7	<5.0	<5.0
	07/02/01	< 1.0	< 1.0	< 1.0	< 2.0	2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0
MW - 9	9/25/00	< 1.0	< 1.0	120	40	4.0	0.0	600	10.0	0.2	*	*
VM - 1	1/16/01	ND	**760**	**1500**	**3300**	ND	ND	ND	1790	**840**	*	*
	05/21/01	< 10	120	**1400**	**1850**	< 10	< 10	< 10	1271	**270**	**140**	**110**
	07/02/01	< 10	120	**1400**	**1800**	< 10	< 10	< 10	1591	**390**	**180**	**92**
VM - 2	1/16/01	ND	190	**1300**	**2000**	ND	ND	ND	1700	**310**	*	*
	05/21/01	< 10	510	**1000**	**1310**	< 10	< 10	< 10	1330	**180**	**100**	**110**
	07/02/01	< 10	320	720	**760**	11	< 10	< 10	958	**150**	**140**	**91**
VM - 3	1/16/01	ND	**2800**	**1100**	**4400**	ND	ND	ND	1240	**210**	*	*
VM - 4	1/16/01	**6600**	**4100**	**2300**	**6600**	ND	ND	ND	2020	**360**	*	*
	05/21/01	**7200**	**1600**	**2200**	**3940**	< 5.0	< 5.0	< 5.0	1260	**410**	**120**	**150**
	07/02/01	**6600**	**2800**	**2600**	**5300**	< 50	< 50	< 50	1680	**450**	**59****	**82****
VM - 5	1/16/01	**8700**	**13000**	**1500**	**8500**	ND	ND	ND	1610	**270**	*	*
	05/21/01	**7700**	**14000**	**1600**	**6200**	< 10	< 10	< 10	1520	**320**	**170**	**170**
	07/02/01	**4800**	**9500**	**1300**	**5400**	< 50	< 50	< 50	1360	**230**	**25****	**42****

TABLE 2a
Rodger's 2615 Isleta
99-01-1186-05 • NMED FACILITY #30287
HISTORICAL GROUND WATER ANALYSIS RESULTS/ORGANICS

		ORGANICS										
LOCATION	**DATE SAMPLED**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**	**EDB**	**EDC**	**TMB**	**NAPHTHALENE**	**1-METHYL NAPHTHALENE**	**2-METHYL NAPHTHALENE**
UNITS		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l
STANDARDS		**10**	**750**	**750**	**620**	**100**	**0.1**	**10**		**30**		
VM - 7	1/16/01	**260**	**9600**	**2000**	**8500**	ND	ND	ND	1960	**380**	*	*
	05/18/01	**160**	**10000**	**2000**	**8200**	< 50	< 50	< 50	1890	**610**	**720**	**610**
	07/02/01	< 100	**6900**	**1600**	**5900**	< 100	< 100	< 100	1350	**340**	**< 500**	**< 500**
FTW - 1	1/16/01	ND	440	**900**	**5600**	ND	ND	ND	1770	**280**	*	*
	05/21/01	< 20	200	560	**2680**	< 20	< 20	< 20	830	**170**	**140**	**160**
	07/02/01	< 10	120	350	**1640**	< 10	< 10	< 10	337	**77**	**< 50**	**< 50**
FTW - 2	1/16/01	ND	**1100**	**1200**	**3100**	ND	ND	ND	1350	**300**	*	*
	05/18/01	< 5.0	230	720	**2030**	< 5.0	< 5.0	< 5.0	840	**150**	**68**	**69**
	07/02/01	< 5.0	120	**810**	**2020**	10	< 5.0	< 5.0	890	**170**	**51**	**50**
FTW - 3	1/16/01	ND	**2600**	**1100**	**4000**	ND	ND	ND	1390	**260**	*	*
	05/18/01	< 20	**2300**	**1300**	**4700**	< 20	< 20	< 20	3160	**380**	**210**	**310**
	07/02/01	< 20	**880**	510	**1680**	< 20	< 20	< 20	800	**120**	**< 100**	**< 100**
FTW - 4	1/16/01	ND	ND	ND	ND	20	ND	ND	ND	ND	*	*

* - Not Sampled or Tested

** - Results Using EPA Method 8270 SIMS

† - Refer to Appendix 1

Data checked _____ / _____

TABLE 2b
Rodger's • 2615 Isleta SW
99-01-1186-05 • NMED FACILITY #30287
HISTORICAL GROUND WATER ANALYSIS RESULTS/INORGANICS

		INORGANICS							INDICATORS		
LOCATION	DATE SAMPLED	IRON		PHOSPHATE	SULFIDE	ALKALINITY as CaCO.	DISS O2	NITRATE	pH	CONDUCTIVITY	TEMP
UNITS / STANDARDS		mg/l		mg/l	mg/l	mg/l	mg/l	mg/l		µmhos/cm	˚C
		SOLUBLE	TOTAL-1.0					10			
MW - 3	9/25/00	50	**50**	0.0	1.0	550	5.0	0.4	7.39	2887	24.6
MW - 5	9/25/00	0.3	0.3	1.5	0.2	250	0.5	1.0	7.23	2562	24.1
MW - 8	9/26/00	*	0.1	1.5	0.0	350	0.5	0.3	6.95	3065	24.8
W - 2	9/25/00	20	**40**	3.0	2.0	*	*	0.3	7.47	2441	23.2
	05/21/01	*	**40**	4.0	0.2	500	5.0	0.1	7.27	1368	29.0
	07/02/01	*	**40**	4.0	0.0	600	10.0	0.2	7.38	1751	23.3
W - 3	9/25/00	4.0	**32**	5.0	0.2	400	4.0	0.1	7.07	2358	21.7
	05/18/01	*	**20**	5.0	6.0	350	3.0	0.4	6.93	2666	19.3
	07/02/01	*	**3.0**	4.0	0.0	250	2.0	0.6	6.98	2528	21.7
W - 5	9/25/00	0.0	0.1	1.5	0.0	250	0.5	1.0	6.87	2268	22.2
W - 6	9/25/00	0.1	0.1	3.0	0.0	300	0.5	0.6	6.92	2538	21.6
W - 10	9/25/00	0.1	0.2	1.0	0.0	300	1.0	0.8	7.05	2095	19.6
W - 11	9/25/00	1.0	**2.0**	1.5	0.3	500	1.5	1.0	7.12	2113	21.6
	05/21/01	*	**2.0**	2.0	0.0	500	3.0	0.6	7.08	1838	20.5
	07/02/01	*	**1.5**	5.0	0.0	500	5.0	0.6	7.03	1955	21.3
W - 12	9/26/00	*	0.3	1.0	0.1	200	2.0	1.5	7.24	2716	23.3
W - 13	9/25/00	1.0	**1.0**	0.3	0.0	350	1.0	1.0	7.11	2844	26.4
W - 14	9/25/00	4.0	**5.0**	2.0	0.1	500	2.0	1.0	7.11	2495	21.8
	05/21/01	*	**5.0**	0.0	0.0	500	4.0	0.3	7.00	2271	22.2
	07/02/01	*	**2.0**	2.0	0.0	500	4.0	1.0	6.98	2523	21.6
W - 16	9/26/00	*	*	*	*	*	*	*	*	*	*
W - 17	9/26/00	*	*	*	*	*	*	*	*	*	*
W - 20D	9/26/00	1.0	**1.0**	0.3	0.4	350	1.0	1.0	7.22	2746	18.7
W - 21D	9/26/00	1.5	**1.5**	3.0	0.0	250	1.5	0.6	6.96	2903	19.1
W - 23	9/26/00	*	**2.0**	7.0	0.0	275	1.0	0.3	6.87	2397	23.0
	1/16/01	*	*	*	*	*	0.80	*	7.98	40.8	10.3
	05/21/01	*	**3.0**	2.0	0.0	350	2.0	0.6	6.91	1708	20.4
	07/02/01	*	**2.0**	2.0	0.0	500	1.0	0.8	6.93	2330	23.6
MW - 9	9/25/00	*	**1.0**	2.5	0.0	225	1.0	0.6	7.04	2660	26.4

TABLE 2b
Rodger's • 2615 Isleta SW
99-01-1186-05 • NMED FACILITY #30287
HISTORICAL GROUND WATER ANALYSIS RESULTS/INORGANICS

		INORGANICS							INDICATORS		
LOCATION	DATE SAMPLED	IRON		PHOSPHATE	SULFIDE	ALKALINITY as CaCO.	DISS O2	NITRATE	pH	CONDUCTIVITY	TEMP
UNITS / STANDARDS		mg/l SOLUBLE	mg/l TOTAL-1.0	mg/l	mg/l	mg/l	mg/l	mg/l 10		µmhos/cm	˚C
VM - 1	1/16/01	< 0.02	**7.56**	< 0.5	250	930	0.83	< 0.5	8.07	125.4	13.1
	05/21/01	*	**8.0**	0.4	2.0	500	6.0	0.4	7.22	1066	20.8
	07/02/01	*	0.8	0.6	0.0	400	2.0	1.0	7.23	2098	23.7
VM - 2	1/16/01	< 0.02	**3.30**	< 0.5	280	820	0.74	< 0.5	7.81	100.8	14.0
	05/21/01	*	0.2	1.0	2.0	400	2.0	0.2	7.43	2324	20.9
	07/02/01	*	0.3	7.0	1.0	600	0.5	1.5	7.38	2269	22.1
VM - 3	1/16/01	0.07	**14.3**	< 0.5	400	710	0.43	< 0.5	7.63	231.0	15.5
VM - 4	1/16/01	0.15	**11.7**	< 0.5	1.1	990	0.63	< 0.5	7.29	166.2	13.6
	05/21/01	*	**10**	5.0	7.0	500	2.0	0.4	6.68	2080	21.4
	07/02/01	*	**14**	5.0	0.0	500	1.0	0.0	6.82	2076	23.4
VM - 5	1/16/01	0.05	**7.98**	< 0.5	240	780	0.82	< 0.5	7.45	203.0	14.1
	05/21/01	*	**3.0**	3.0	1.0	600	2.0	0.2	6.90	2039	20.4
	07/02/01	*	**2.0**	0.2	0.0	500	3.0	1.0	7.11	2048	23.7
VM - 7	1/16/01	0.03	**2.19**	< 0.5	52	880	1.20	< 0.1	7.60	194.0	13.2
	05/18/01	*	**1.5**	0.2	0.3	550	4.0	1.0	6.94	2120	21.2
	07/02/01	*	**1.5**	4.0	0.2	500	3.0	1.5	7.00	2330	24.1
FTW - 1	1/16/01	< 0.02	**9.74**	< 0.5	540	530	0.46	< 0.1	7.56	231.0	16.1
	05/21/01	*	**2.0**	2.0	0.0	350	2.0	0.4	7.03	2151	20.0
	07/02/01	*	**1.0**	2.0	0.0	350	1.0	1.0	6.96	2345	22.9
FTW - 2	1/16/01	< 0.02	**8.80**	< 0.5	390	470	0.51	< 0.5	7.58	89.7	15.5
	05/18/01	*	0.6	0.2	0.0	350	3.0	1.5	6.95	972	21.4
	07/02/01	*	0.4	0.6	0.0	500	4.0	1.5	7.02	1939	22.2
FTW - 3	1/16/01	< 0.02	**2.97**	< 0.5	740	600	0.49	< 0.1	7.51	254.0	16.4
	05/18/01	*	**3.0**	2.0	2.0	350	1.0	0.8	7.14	2241	21.8
	07/02/01	*	0.3	0.3	0.8	300	1.0	1.0	7.05	2594	23.6
FTW - 4	1/16/01	< 0.02	**3.42**	< 0.5	570	560	0.69	< 0.1	7.49	231.0	15.5

* - Not Sampled or Tested

Data checked _____ / _____

TABLE 3
99-01-1186-01 • Rodger's 2615 Isleta Blvd
NMED FACILITY #30287
SUMMARY OF GROUND WATER ELEVATION MEASUREMENTS

WELL NUMBER	ELEVATION (feet above datum)	DATE	STATIC (feet BG)	WATER LEVEL (feet AD)	(+) = RISING (-) = FALLING
MW-3	4934.51	9/25/00	8.63	4925.88	
		5/18/01	8.46	4926.05	0.17
		7/2/01	8.84	4925.67	-0.38
MW-5	4933.36	9/25/00	7.68	4925.68	
		5/18/01	7.48	4925.88	0.20
		7/2/01	7.48	4925.88	0.00
MW-8	4933.43	9/26/00	7.64	4925.79	
		5/18/01	7.46	4925.97	0.18
		7/2/01	7.83	4925.60	-0.37
MW-9	4934.10	9/25/00	8.22	4925.88	
		5/18/01	8.03	4926.07	0.19
		7/2/01	8.42	4925.68	-0.39
W-2	4933.56	9/25/00	7.88	4925.68	
		5/18/01	7.67	4925.89	0.21
		7/2/01	8.06	4925.50	-0.39
W-3	4932.68	9/25/00	7.07	4925.61	
		5/18/01	6.85	4925.83	0.22
		7/2/01	7.24	4925.44	-0.39
W-5	4932.28	9/25/00	6.69	4925.59	
		5/18/01	6.48	4925.80	0.21
		7/2/01	6.86	4925.42	-0.38
W-6	4931.69	9/25/00	6.46	4925.23	
		5/18/01	6.24	4925.45	0.22
		7/2/01	6.62	4925.07	-0.38
W-10	4932.64	9/25/00	7.11	4925.53	
		5/18/01	6.92	4925.72	0.19
		7/2/01	7.49	4925.15	-0.57
W-11	4933.68	9/25/00	7.98	4925.70	
		5/18/01	7.78	4925.90	0.20
		7/2/01	8.15	4925.53	-0.37
W-12	4934.13	9/26/00	8.34	4925.79	
		5/18/01	8.17	4925.96	0.17
		7/2/01	8.54	4925.59	-0.37
W-13	4933.68	9/25/00	7.93	4925.75	
		5/18/01	7.73	4925.95	0.20
		7/2/01	8.10	4925.58	-0.37
W-14	4934.44	9/25/00	8.72	4925.72	
		5/18/01	8.53	4925.91	0.19
		7/2/01	8.89	4925.55	-0.36
W-16	4933.13	9/26/00	11.06	4922.07	
		5/18/01	7.28	4925.85	3.78
		7/2/01	7.63	4925.50	-0.35

TABLE 3
99-01-1186-01 • Rodger's 2615 Isleta Blvd
NMED FACILITY #30287
SUMMARY OF GROUND WATER ELEVATION MEASUREMENTS

WELL NUMBER	ELEVATION (feet above datum)	DATE	STATIC (feet BG)	WATER LEVEL (feet AD)	(+) = RISING (-) = FALLING
W-17	4932.28	9/26/00	6.63	4925.65	
		5/18/01	6.46	4925.82	0.17
		7/2/01	6.81	4925.47	-0.35
W-20D	4934.15	9/26/00	8.43	4925.72	
		5/18/01	8.27	4925.88	0.16
		7/2/01	8.64	4925.51	-0.37
W-21D	4934.19	9/26/00	8.43	4925.76	
		5/18/01	8.29	4925.90	0.14
		7/2/01	8.68	4925.51	-0.39
W-23	4931.84	9/26/00	6.51	4925.33	
		5/18/01	6.24	4925.60	0.27
		7/2/01	6.70	4925.14	-0.46
VM-1	4933.00	1/16/01	7.00	4926.00	
		5/18/01	7.17	4925.83	-0.17
		7/2/01	7.52	4925.48	-0.35
VM-2	4932.84	1/16/01	7.12	4925.72	
		5/18/01	6.96	4925.88	0.16
		7/2/01	7.34	4925.50	-0.38
VM-3	4933.23	1/16/01	7.38	4925.85	
		5/18/01	7.38	4925.85	0.00
		7/2/01	7.75	4925.48	-0.37
VM-4	4933.30	1/16/01	7.45	4925.85	
		5/18/01	7.45	4925.85	0.00
		7/2/01	7.83	4925.47	-0.38
VM-5	4933.28	1/16/01	7.56	4925.72	
		5/18/01	7.55	4925.73	0.01
		7/2/01	7.91	4925.37	-0.36
VM-7	4934.09	1/16/01	9.23	4924.86	
		5/18/01	8.23	4925.86	1.00
		7/2/01	8.58	4925.51	-0.35
VM-8	4933.74	5/18/01	7.77	4926.32	
		7/2/01	8.14	4925.95	-0.37

TABLE 3
99-01-1186-01 • Rodger's 2615 Isleta Blvd
NMED FACILITY #30287
SUMMARY OF GROUND WATER ELEVATION MEASUREMENTS

WELL NUMBER	ELEVATION (feet above datum)	DATE	STATIC (feet BG)	WATER LEVEL (feet AD)	(+) = RISING (-) = FALLING
FTW-1	4933.59	1/16/01	7.74	4925.85	
		5/18/01	7.78	4925.81	-0.04
		7/2/01	8.10	4925.49	-0.32
FTW-2	4932.94	1/16/01	7.10	4925.84	
		5/18/01	7.09	4925.85	0.01
		7/2/01	7.47	4925.47	-0.38
FTW-3	4934.10	1/16/01	8.21	4925.89	
		5/18/01	8.21	4925.89	0.00
		7/2/01	8.56	4925.54	-0.35
FTW-4	4932.79	1/16/01	6.93	4925.86	
		5/18/01	6.94	4925.85	-0.01
		7/2/01	7.30	4925.49	-0.36

Data checked _____ / _____

TABLE 4
99-01-1186-05 • Rodger's 2615 Isleta Blvd. SW
NMED FACILITY #30287
Summary of Tasks Performed in the Field

DATE	FIELD TECH.	DESCRIPTION
9/21/00	KGF, MB	Initial sampling round(1st Qtr)-all existing wells, site survey.
10/12/00-10/13/00	BB, TC	Drilling on site, soil samples taken.
11/28/00	BB, TC	Drilling on site, soil samples taken.
1/16/01	BB, SG	Collect GW samples, new wells
2/21/01	BB, TC	Drilling on site, soil samples taken.
5/18/01 & 5/21/01	KL, MB	2nd Quarterly sampling round, 13 selected wells.
7/2/01	KL, MB	3rd Quarterly sampling round, 13 selected wells, EPA Method 8270 on two wells.

Data checked _____ / _____

APPENDIX 1

Sampling Protocol

Prior to any sampling, well development or purging, all monitor wells were sounded for depth to ground water. FEI used an electronic sounder with an accuracy of ±0.01/foot. Ground water elevations (from datum) were determined using survey data collected during the Hydrogeologic Investigation.

Prior to any sampling event, a minimum of three (3) well bore volumes were purged from each well using a Grundfos Sampling Pump. Samples were collected in HCl preserved VOAs and placed on ice in a container for delivery to Pinnacle Laboratories, in Albuquerque, New Mexico, for analyses. The ground water samples were analyzed for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), Methyl-t-Butyl Ether (MTBE), TMB, Ethylene Dibromide (EDB), Ethylene Dichloride (EDC), Naphthalene, 1-Methylnaphthalene and 2-Methylnaphthalene by EPA Method 8260 PBMS (expanded napthalenes) and for polynuclear aromatics (PNA) by EPA Method 8270 SIMS in wells VM-4 and VM-5. Natural attenuation indicator parameters iron, phosphate, sulfide, alkalinity, pH, dissolved oxygen, conductivity, temperature and nitrate were analyzed and measured in the field using the appropriate field test kits and equipment. All EPA-approved sampling protocols were observed and a chain of custody was maintained on all samples.

In an effort to more realistically characterize the analytical data generated from the quarterly sampling, FEI has adopted a reporting standard of multi-component compounds like total xylenes. Detection limit values in a multi-component compound that are reported as below detection limits and are less than 10 percent of the lowest detectable value will not be added-in as part of the total concentration value reported. Detection limit values greater than 10 percent of the lowest detectable value will be added-in as part of the total concentration value reported. This will eliminate confusion regarding the “less-than” symbols where concentrations have been detected.

APPENDIX 2

Field Notes

APPENDIX 3

Analytical Laboratory Reports